

IPAR.003197-A

Thurs. July 21, 1960. Dep. N.H.

Fri. July 22 Crown Pt. State

Park, Pennsylvania. Site in  
afternoon walked over  
Sections A-H, Raymond

1902. Bull. Amer. Paleont.  
v. 3, no. 14, p. 121. Colls. figd at  
Gen. Univ.

Section A.  
Uncovered only the upper

part of the sequence. Some

Raymond covered interval

of 1000 feet. Machinities

in massive sandy beds.

No good for collectors

Section B-H. Raymond.

Still very sandy in

basal part

No good any coll.

C40-42

Small  
Cliff

C30

Point  
Rock

B17

Boiling  
area

Lake Champlain

St. 1700  
Friedrich  
Terry Bridge

road

N  
500 ft

B-3. + the "Machantes" + 7/23/60  
Stomatopora  
B-4 + Orthoceras

B6. + Stomatopora

B7. Stomatopora of brachs.

B-17. Brachs. Brachs. Brachs. Brachs.  
massive lte having solid  
cor. ls, brachs, & st. lts, a  
st. lte (not collected), Brachs.

15 ft above base of limestone  
large colonies of to lte  
"Columnaria"

## Section C-C.

however part not productive of  
fossils - very sandy.

C-23 none in black

low with orange colonies

These collections made in quarry  
of limestones in P.M. which  
L. Cummings collected thin  
lenses of calcarenite -  
part black in black  
late which weathers  
white

C-24

C-27. West of rubble dock

Tetradium, Columnaria

~~Stromatolium~~

Maclureites. No coll. made

C<sup>30</sup>. Base of the Trenton

List remained of Colls. from Sect. C.  
when unpacking

7/24/60

## Chazy Quarry Section

### Depth of quarry

(Dolomite?)

- 1.) Floor of quarry; ~~Sandstone~~, many

brachiopods of Reticellula type,

other frags. ————— 3" +

- 2.) Covered ————— 1' 3"

Dolomite?

- 3.) Ls., dark gray, fine grained sand-eyes,

alot of green-gray weathering sand

blebs and bands, 4 to 6" beds

separated by <sup>more</sup> 1/2" shaly partings,

which have more porosity (small spring)

————— 2 1/2' ~~is~~ thin

~~is~~ thin part unit 5.

- 4.) Ls., dark gray, v.f. grained calcarenite or

calclutite, appreciable clay + salt -

argillaceous lime bed ————— 8'

7.) Ls., Light gray to med. gray, <sup>block.</sup> where <sup>fresh</sup>  
6 to 8" beds, phytopores or tetradium  
beds, calclutite with coarse  
calcareous bands which  
may contain "quartz" sand and  
most of the fossils (brachiopods).

3' 3"

<sup>road</sup>  
Main level of Quarry.

8.) "Dove gray" Ls., calclutite, ~~massive~~  
2 to 4 foot beds, scattered frags of  
fossil shells, interbedded with  
massive v.f. calcareous, having more  
common fossils. near top of unit



calclutite and calcarenite lithologies

are intermixed in irregular lenses.

14'

9.) Limestone, shales, wavy bedding,

much mud in shaly partings, 2" to 4"

beds. Quanyman's 26 inch shaly layer.

Le Chaumont. 2' 2"

↓ ?  
Trenton?

10.) Calcarenites, bas. gray, f. to med. sand

size, <sup>calcin</sup> grains, irregular bedding surface,

poorly sorted fossil hash,

tetracorals, algae, small Stomatopora,

brachiopods, gastropods, the most

fossiliferous of all of this sequence.

beds 2 to 6 feet thick, separated by  
1/2 inch shaly partings. — 16 feet  
covered by glacial sand & d  
conglomerates above 10 to 15 feet

Ordovician rocks here dip about  
5 or 6° to the NNW although there  
seems to be a shallow syncline  
across the <sup>North</sup> face of the Quarry so  
that the dip varies slightly.



7/24/60

Type

Cherry Tree Bone interposed

Set T/A A. Gravelly

Coll. Cherry 1. <sup>fully</sup> ~~of tabular~~ base  
Saccharoidal to

... w. coarse

... w. fine ss.

Coll. 2 - 6 feet up in fossil track

"crinoidal columnar conglomerate"

3. 2 ft. fine ...

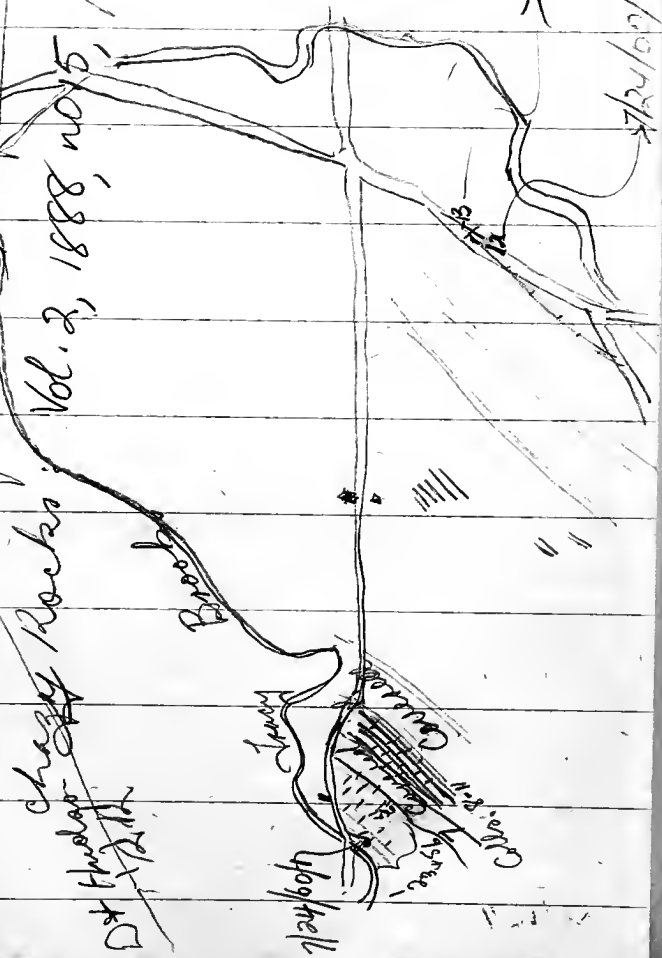
... w. fine ...

4. ... <sup>scattered</sup> ...

4. ... <sup>of</sup> ...

12.25

Brainerd, Egner, & Sperry H.M., The Original  
 Chazy Rocks: Vol. 2, 1888, no 15, p. 323 - 330  
 May 20 1904



12/24/04/3  
 12/24/04/12

7/24/60

5. Beach. hard.

Coarse calcarenite

Coll. 5. med 27 ft.

6. Weathered rubble

silts ls. pebbles. Ten Bay  
4 ft.

7. Coarse pinkish calc.  
massive silty ls. 27 ft.

8. Silty of ...

coll.

Shell - coarse calc.

fine sand  
Ten Bay 15 ft.

fine shell

Coll. hit 4 ft.

Calcarenite

7/24/60

10. Fine sandstone

to. Dense. lt. gray.

11. 2. 3 ft. 15 ft. 10-15 ft. 15 ft. 10-15 ft.

11. 2. 3 ft. 15 ft. 10-15 ft. 15 ft. 10-15 ft.

11. 2. 3 ft. 15 ft. 10-15 ft. 15 ft. 10-15 ft.

11. 2. 3 ft. 15 ft. 10-15 ft. 15 ft. 10-15 ft.

11. 2. 3 ft. 15 ft. 10-15 ft. 15 ft. 10-15 ft.

Old quarry Rte 348  
N.Y.

Coll. 121

Near telephone pole.

End of quarry.

Coll. B 15 yds north of

telephone pole. Near N.Y.

end of quarry.

In the field we couldn't  
get Brainerd & Seeley's or  
Oxley's sections to fit in  
w. field occurrence.

Oxley did not remeasure  
Brainerd & Seeley's sections  
B-B-C-C. My section  
is pretty much across the  
line of section taken by  
Oxley but I doubt if it  
can match the section

In 7/24/60/13 there is  
a tetraconal. This late

would <sup>it</sup> be in C-C. of

B & S? — If H. Duncan is  
correct this late is at least <sup>indeed</sup> <sup>Howells</sup>

July 25.

Night of July 24 spent on  
Saranac R. at Cadyville.  
Very nice spring at foot of  
hill.

Morning July 25 Shipped  
120 lbs rocks from Plattsburgh,  
Dep. for Watertown via  
U.S. 3. Again impressed  
by ~~and~~ Municipal facilities  
in beach etc. at Lake  
Saranac. Lake Tupper  
look at exposures between  
Watertown & Rodman.

to Sandy Creek Municipal  
park. Pine forest with  
excellent camping facilities  
No collections!



July 26, Tuesday, 7/26/60

East of Rockman.

2. Stream. Exposed  
under bridge & on west  
side stream, junction with

Sandy Creek. Upper Tertiary.

See Kay, 1933, Am. T. Sci. 62 p.

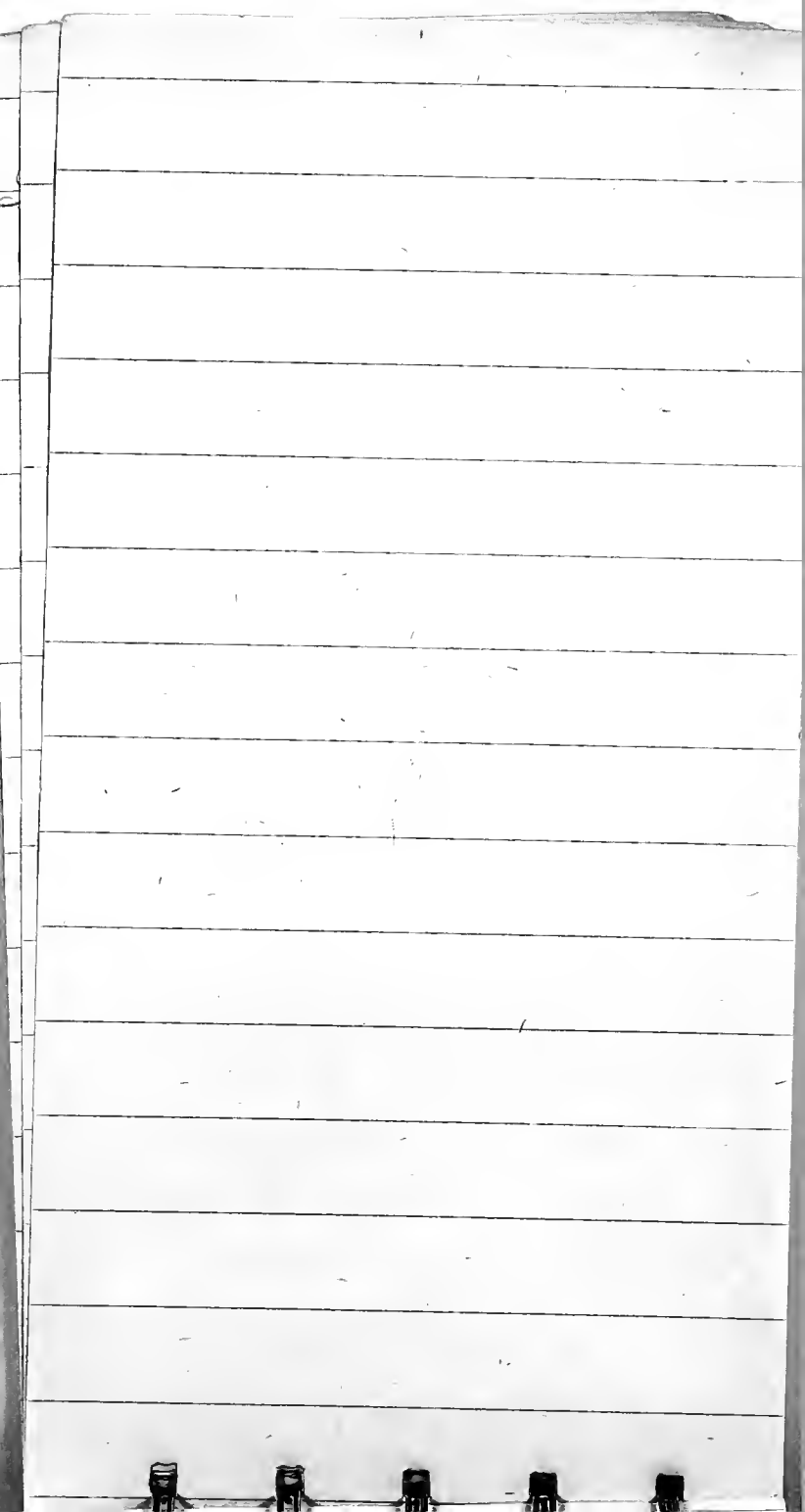
Coll. 1. Dense med. grey ls. (calcareous) having many  
brachiopods. 4 ft.

Coll. 2. Dense med. grey  
ls. (calcareous) 1 ft.

shells brach. pieces of  
crinoid columns & *Ferrissia*  
abundant. <sup>6 in.</sup> only colonial coral.

Coll. 3. Med. grey calcareous

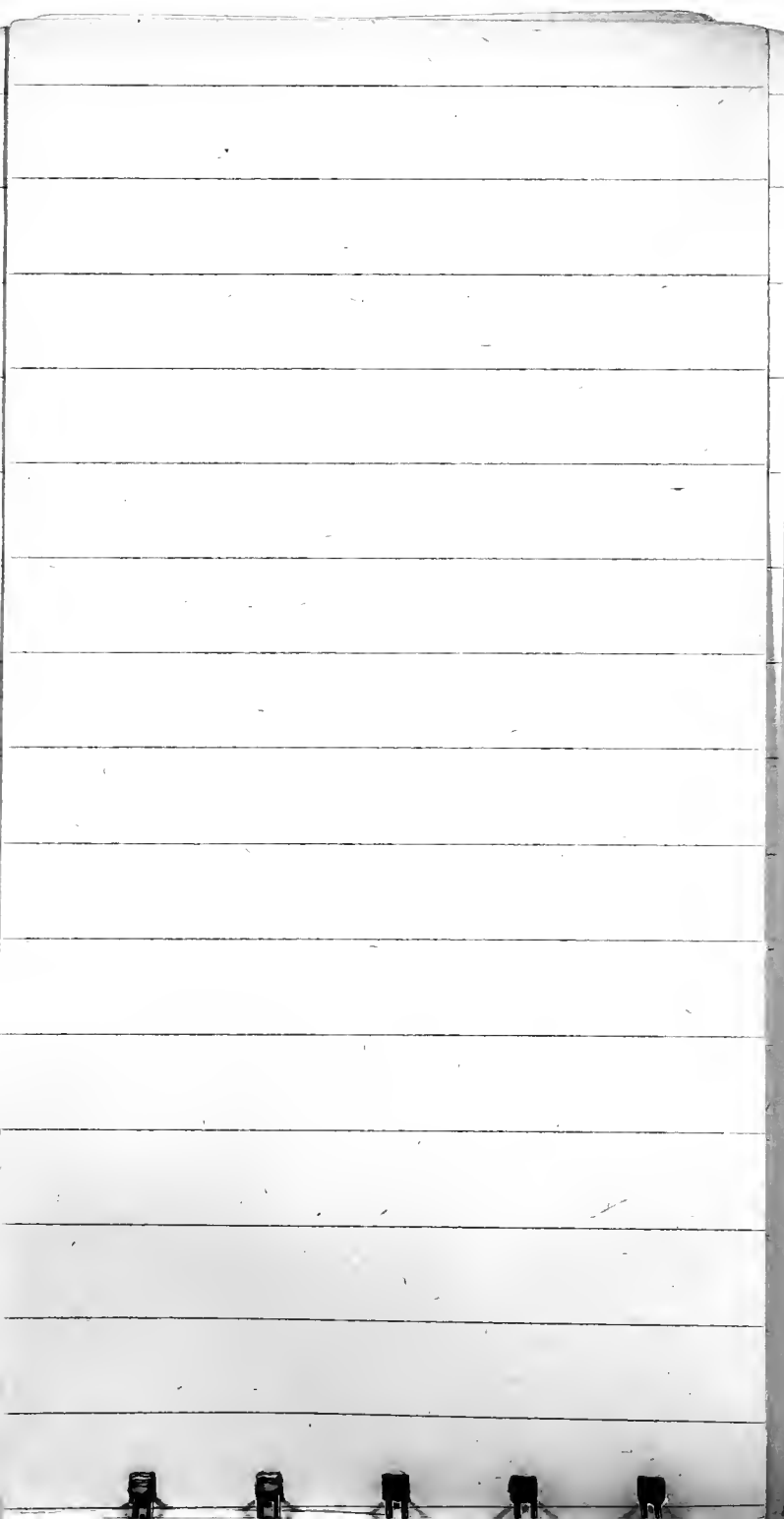
weathered into  
having "leptaena", *Schuchertella*,  
*Euthoceriids*. 15 ft. Some



Coll. 4. Calcutite -  
calcaremite having  
"pastwood" v. abundant  
some brachs. Por. v. ist.  
absent

7/26/60.

Quarry at Copenhagen  
Coll. 5.



Just west of Pleasant Lake 7/26/60

Coll. 7 3 ft from base of  
Sect. 1

See loc. map  
over page

Unit 3

Unit 1. Interbedded

calcareous, yellowish

beds, sand in fossil

beds. Individual calcareous  
beds 1"-2" thick, shale  $\frac{1}{2}$ "-1"  
thick (lenticular). Shale & like  
surfaces appear rounded

and in lower part of section  
are thin, gray brown & light

gray. Much more on beach  
surface

Unit 1 is 16 ft  
Coll. 7. 8 ft from base thick  
Unit 2 - 5 ft thick

Unit 3, calcareous, massive

beds. 8-12" thick, + 7/26/60  
interbedded sh. & limest.  
calcareous 1'-3" thick  
These beds are 1. limestone

Unit 3. - 9 1/2 ft.

Rapidly turning, late  
- shale. Mainly, late.

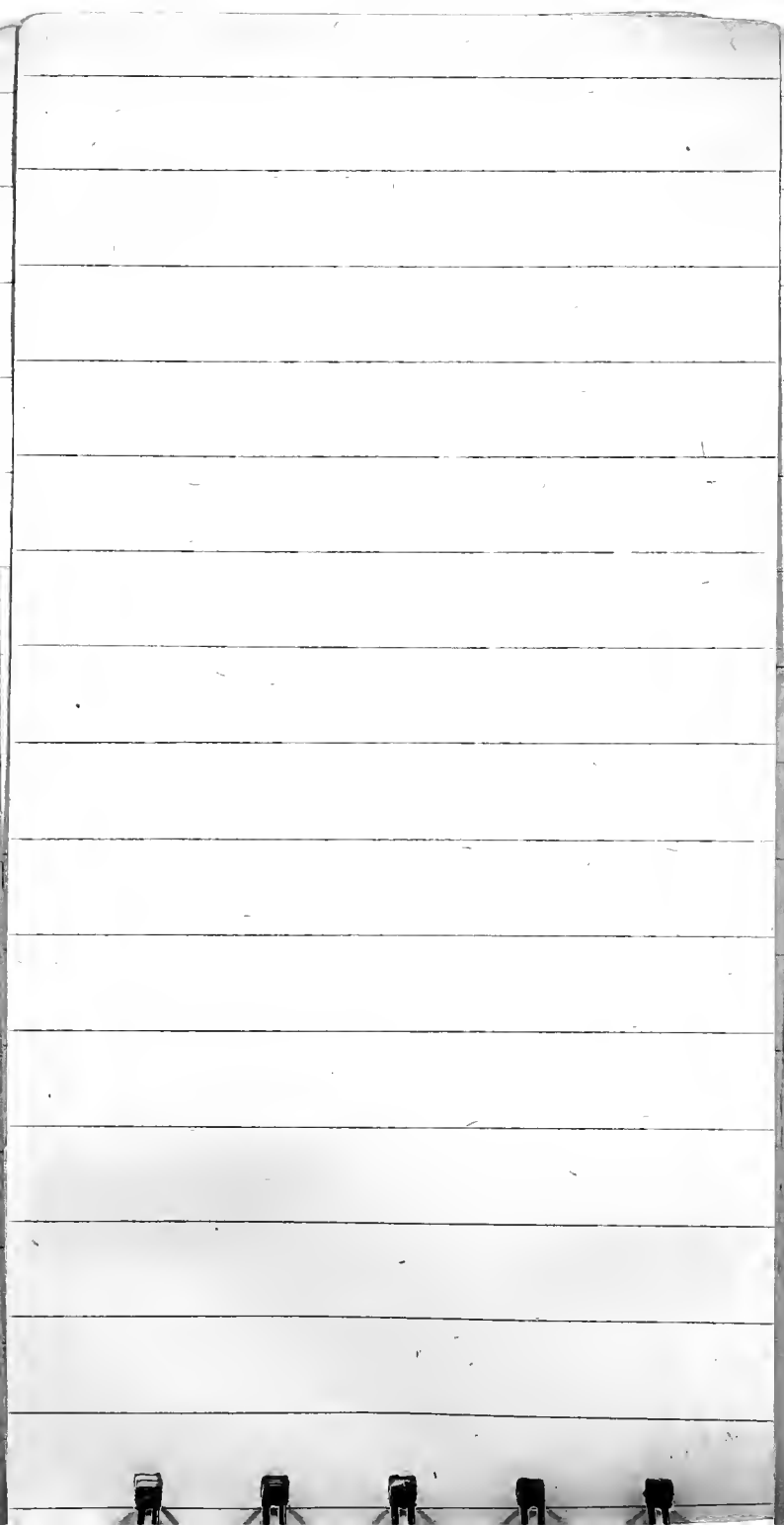
Unit 3-3" top of unit  
sh. & calc. - some  
- calc. & some  
late + 18 ins zone Call. 6  
at base of re-entrant.  
*Cryptolithus Constellatus*

Unit 4. - 10' thick,

Same as Unit 3

below again marked

by late re-entrant  
6' at top.





Unit 5. - 8 ft. 7/26/60

late as before...

unit 3. Name as before

3' thick (shale) at 1'

level at 3 ft., 2 ft. 3 ft.

from base of unit.

7/26/60

Canal at town of  
Black River

See you is in  
Theophrastus & Columnar  
chert nodules

Col. 8 - Columnar

Approaching Calcium from  
town of Black River. 1 1/4 ml. W. N. Y 26  
Same as Black River Unit 1. 4 ft thick

Col 7 1/2 ft thick

10. same as Col 7 - 1/2 ft thick  
approaching Calcium from  
town of Black River. 2 1/2 ft thick

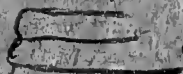
Same as before. 1/2 ft thick  
Black chert nodules. Same  
Col. 10 Unit 3. 6 in thick

Theophrastus

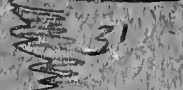
12/26/60

# Cut 200 yd So of Calcarum

top

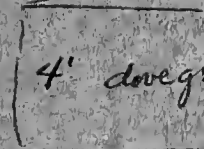


birdseye ls.



3'

silt ls, 1" beds between 1/4" shaly beds



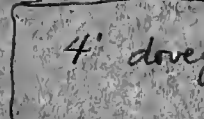
4'

dovegray 6" to 3' foot beds



2 1/2'

slabby siltstone & thin calcarenite



4'

dovegray, calcarenite, 4" to 2' beds



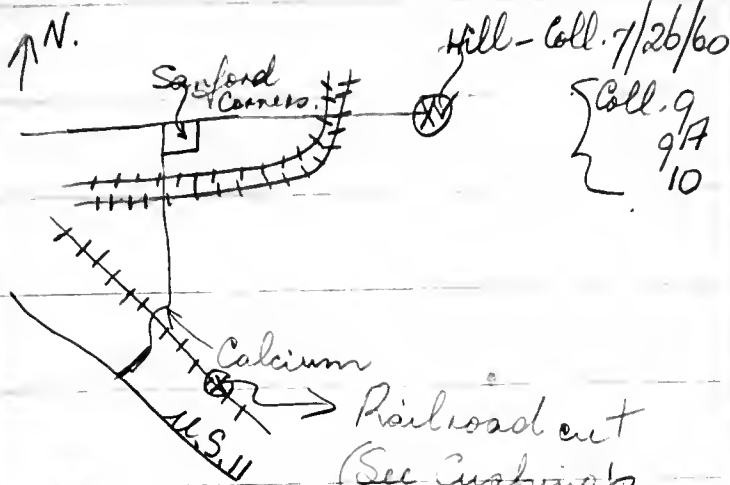
bryozoan bed

3'

Calcaremite, med gy weathering, 6 to 10" beds

RR bed.

In 400' at on 50' pl. 7/26/60  
 near base of chert - large  
 mud blocks in fine calcareous  
 matrix



Coll. 9  
 9A  
 10

Railroad cut  
 (See Cushing's  
 measurement of  
 section.

Coll. made by  
 (RBN. remembered)  
 7/26/60/11.

7/27/60

King's Falls, Deer River

ledge at base of monument

3 ft above water level.

Praxopora, dalmatellids,

isotelid abundant,

and smaller is., large

Hebertella? Section at

least 40 ft <sup>thick</sup> above river

level. V. similar to

that near Pleasant Lake 7/26/60

Coll. 1. mainly Praxopora

See loc. map over page.

↑  
River  
Kings Falls  
Coll 7/27/69

Denmark  
Carthage Quadrangle  
15 min

1 mile  
Scale

Location see map <sup>over page</sup> 7/27/60

1 ml. S. of Rte 3 at Big Bend

hedge formed at surface

for several miles

8 ft exposed in road cut

~~subbly layer~~ → subbly layer w. a few  
gastropod calcarenite 6" anal

8" Tetradium - phytophys

birdseye

No. coll

1/2 ml. further S.

4 ft outcrop on east side of  
road but set of ledges.

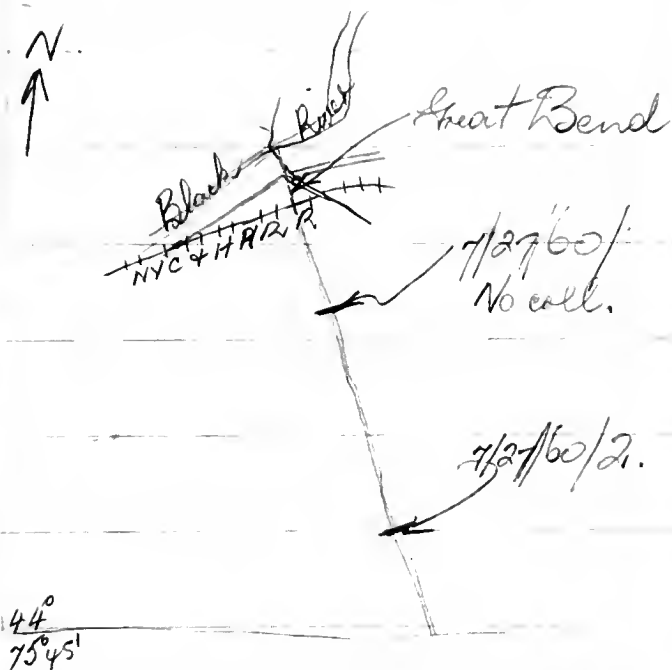
black. loks → subbly coll. 2  
o o sheet  
birdseye.

Southernmost exposure shows  
faulting of late.

Near Champion Huddle 7/27/60  
Coll. 3. Nautiloid, Bry, corals.

Coll. 3A. Lgt with  
Stictopora.

Exposure on W. side of road 8 ft.  
Silty calcarenite & calcilutite (lt. grey)  
Rockland fm. 7/7/60

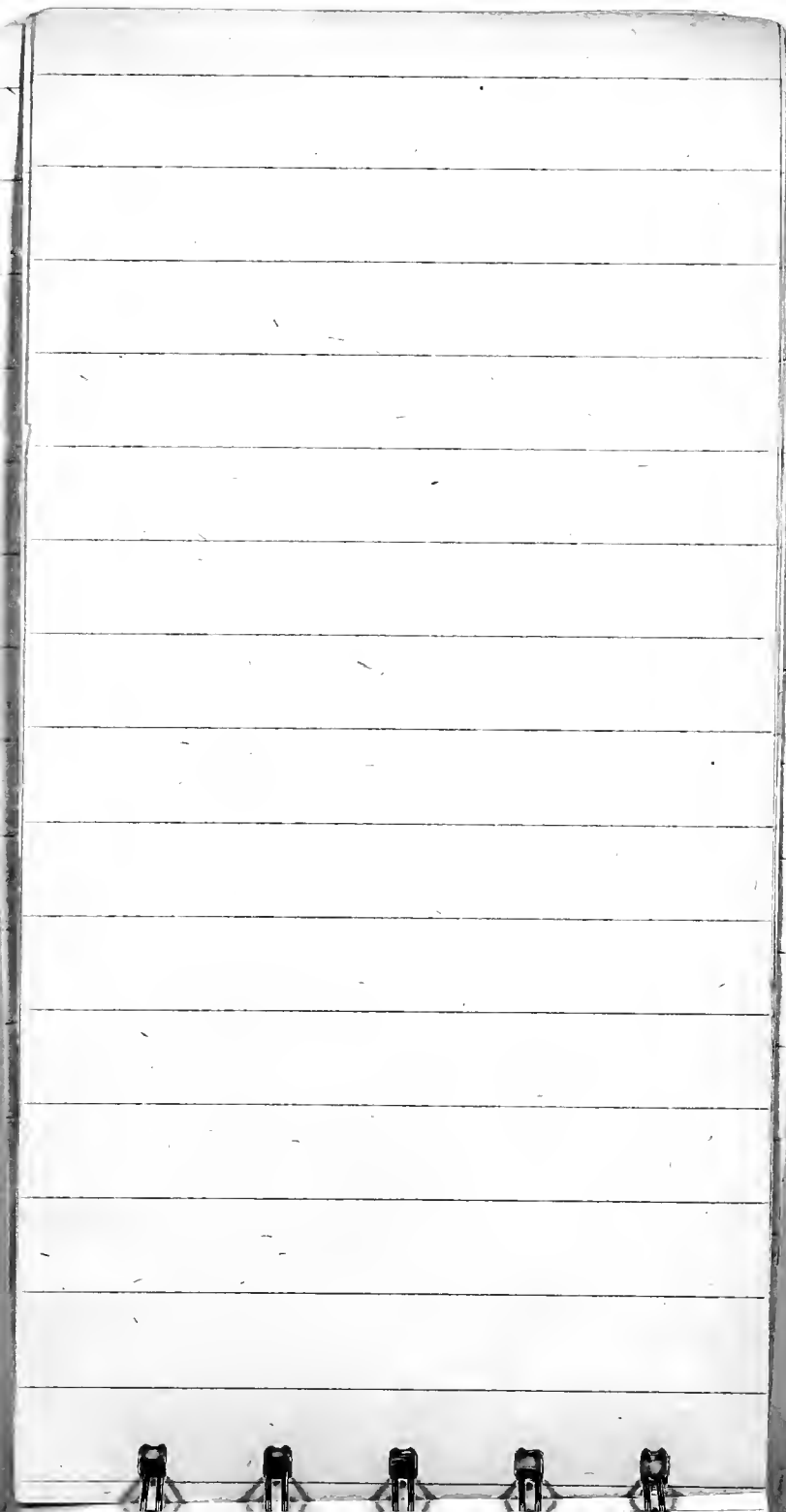


Antwerp 15 min. quadrangle.

Scale  
1 mile

Taken from Bull 206, N.Y. St. Mus.  
1934. Buddling fort Rochester





7/27/60.

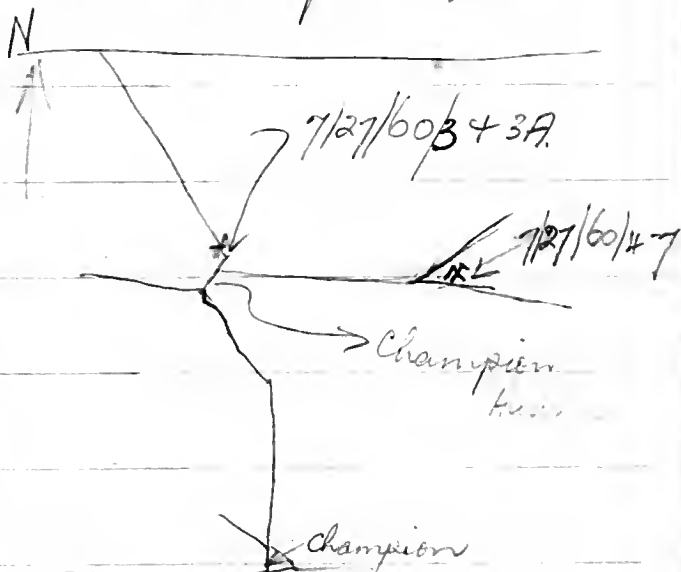
Coll. 4.

Coll. 5

Col. 6,

Coll. 7

Abandoned quarry  
near Champion, N.Y.



N.Y. St. Mus. Bull. 296, 1934.

Carriage. 15 min. quadrang.

N.Y. State  
Scale  
1 mile 0

② cont., 2 silty-shale breaks, This  
forms a prominent weak zone in the  
quarry wall. ———  $2\frac{1}{2}'$

③ Birdseye ls. dove gray calcilutite  
massive bed ———  $2\frac{1}{2}'$

④ Calcilutite and Calcareumite interbedded &  
inter-tongued, irregular bedding  
Coll. 5  
surfaces, weathers to 2 12" layers —  $2'$

⑤ Calcilutite, med. gray,  $\frac{1}{2}"$  to  $2"$  beds,  
shaly and  
silty interbeds less than  $\frac{1}{8}"$  thick,  
bedding surfaces irregular, contorted  
Coll. 6  
perhaps by load slumping —  $4'$

⑥ <sup>med. gray</sup> Calcaremite having calcilutite matrix,  
3 to 4" beds, wavy bedding — 3'

⑦ Dove gray limestone, calcilutite,  
6" to 1 foot beds, even bedding  
surfaces compare to those below and  
above — Coll. 7 — 2½'

8.) like unit ⑥ — 7'

NY 331

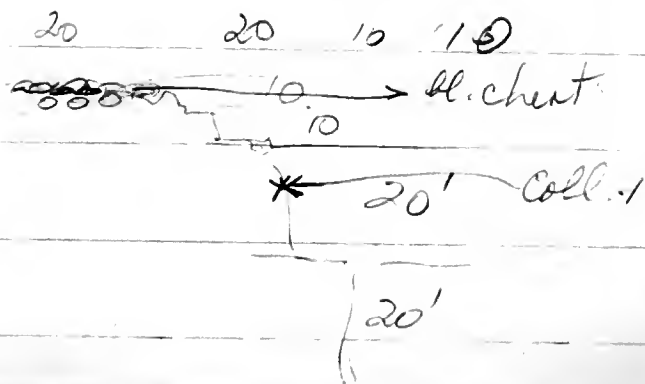
7/28/60.

Read from Churn to Lyons  
Falls. Abandoned quarry

Coll. 1. [Horizon appears  
lithology & faunal assoc.  
same as Coll. 4

7/27/60. Black River - Howville

Higher on hill bridge  
late <sup>bl.</sup> chert nodules  
exposed. At creek crossing  
near Churn, (higher in section)  
Fenton is  
exposed.



7/28/60.

# Sugar River

Coll. 2. 2 ft. below falls.

Coll 3. 6 ft below Coll. 2

Coll. 4. 4 ft below Coll. 3

~~Coll. 4. 4 ft.~~

This is marked  
long caucoid stems oriented N.E.

Coll. 5 3 ft above ~~Pointland~~ Pointland Am  
4 ft below Coll. 4

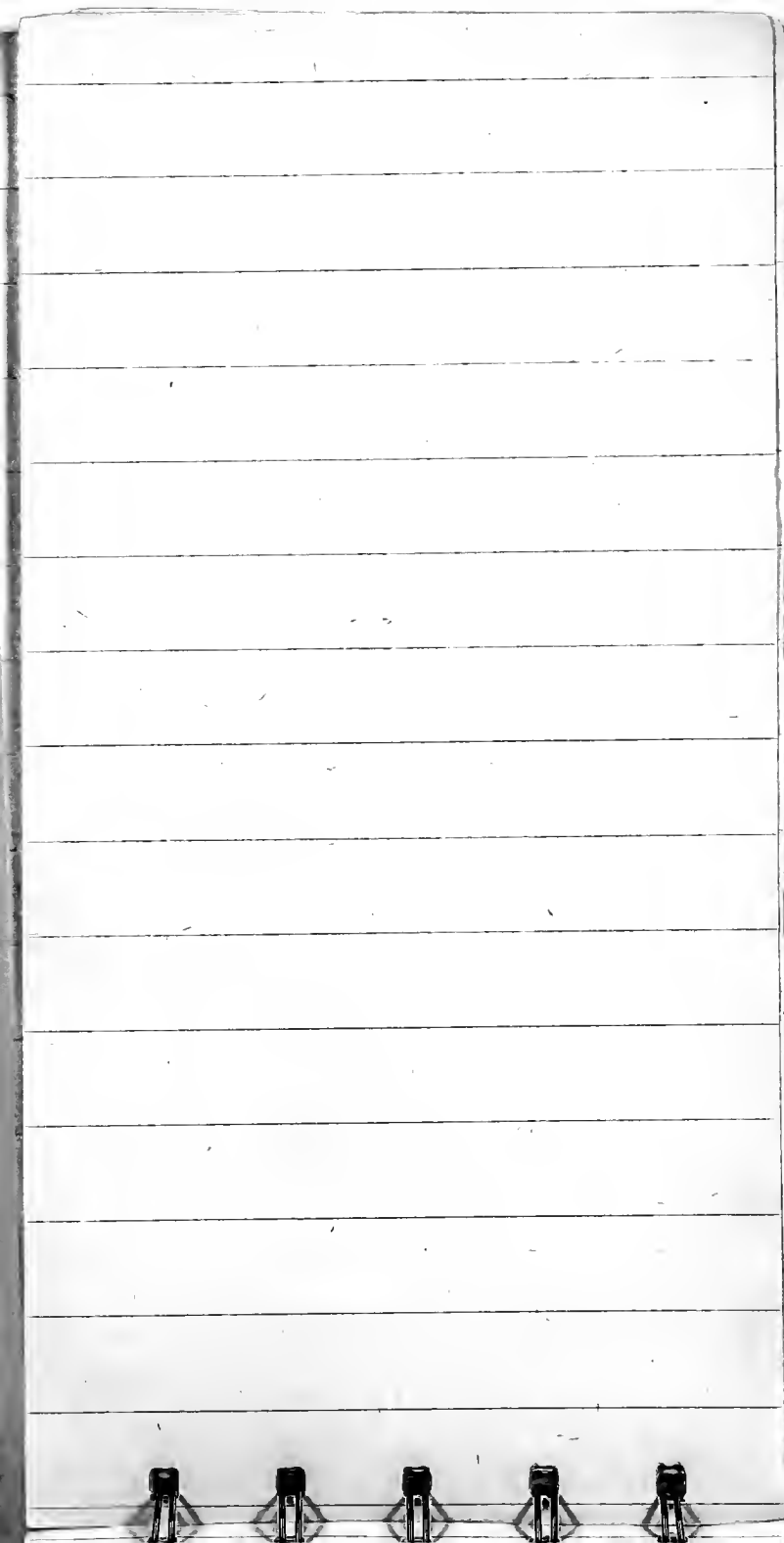
cul. Horn corals, cypers, & small  
stems of trees.

V. Shaly; limest. v. abundant

Bay not abundant corals

abundant at Coll. 4.

inf



Prospect  
top of section  
unit 1.

7/28/60.

fine crinoidal calcarenite

Branches, few Brg.

V. fine crinoid columns. 4 ft

Coll. 6.

unit 2.

note. in quarry fine 6 ft.

Unit 3. Coll. 7. 3 ft

Black, fine calcarenite

in beds 1 in to 6 in thick

& bl. Sh <sup>1-2"</sup> int. beds Brg.

abundant Sticks, bituminous

Unit 4. Same as unit 3 but

beds more massive 6"-8"

each. Shale 1" beds.

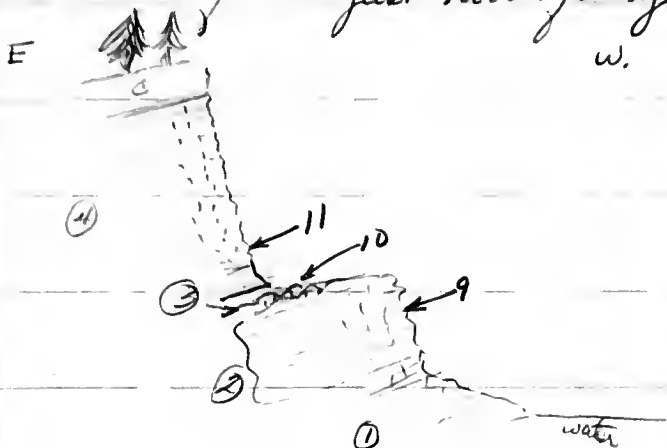
Coll. 8.

5 ft



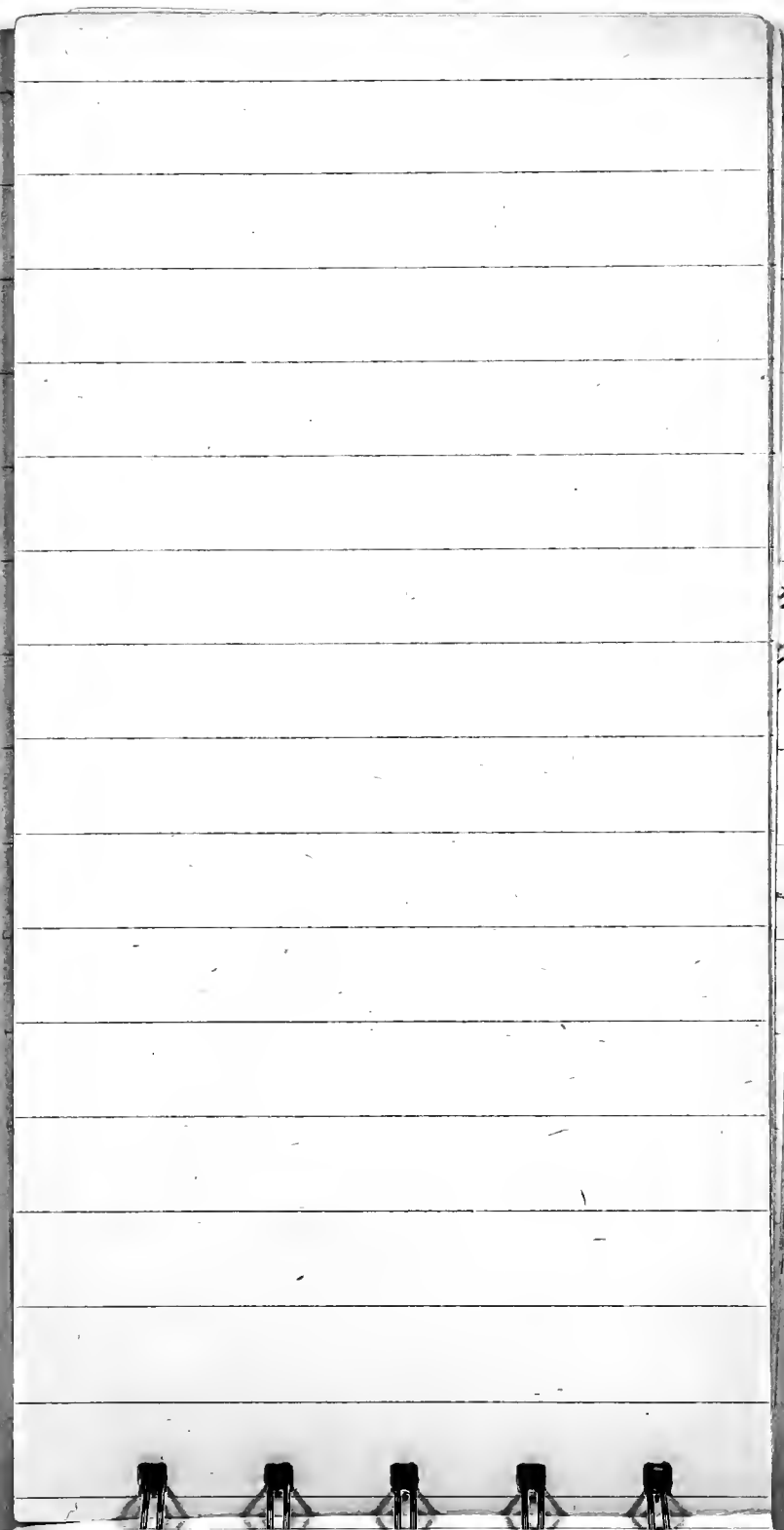
# Unit 5.

Township of Prospect. River  
on east side of town  
Northside of Road just north of bridge



① Limestone, brown gray, <sup>v. silty,</sup> irregular bedding  
2 to 4" thick, dark silty lenses which  
look like poorly bedded chert zones,  
upper 2' feet lack these bands - 8' exposed

② Ls., calcilutite and a few calcarenite  
lenses, shaly partings have Passage  
and other fossils, 4-6" beds Coll. 9  
—— 7'

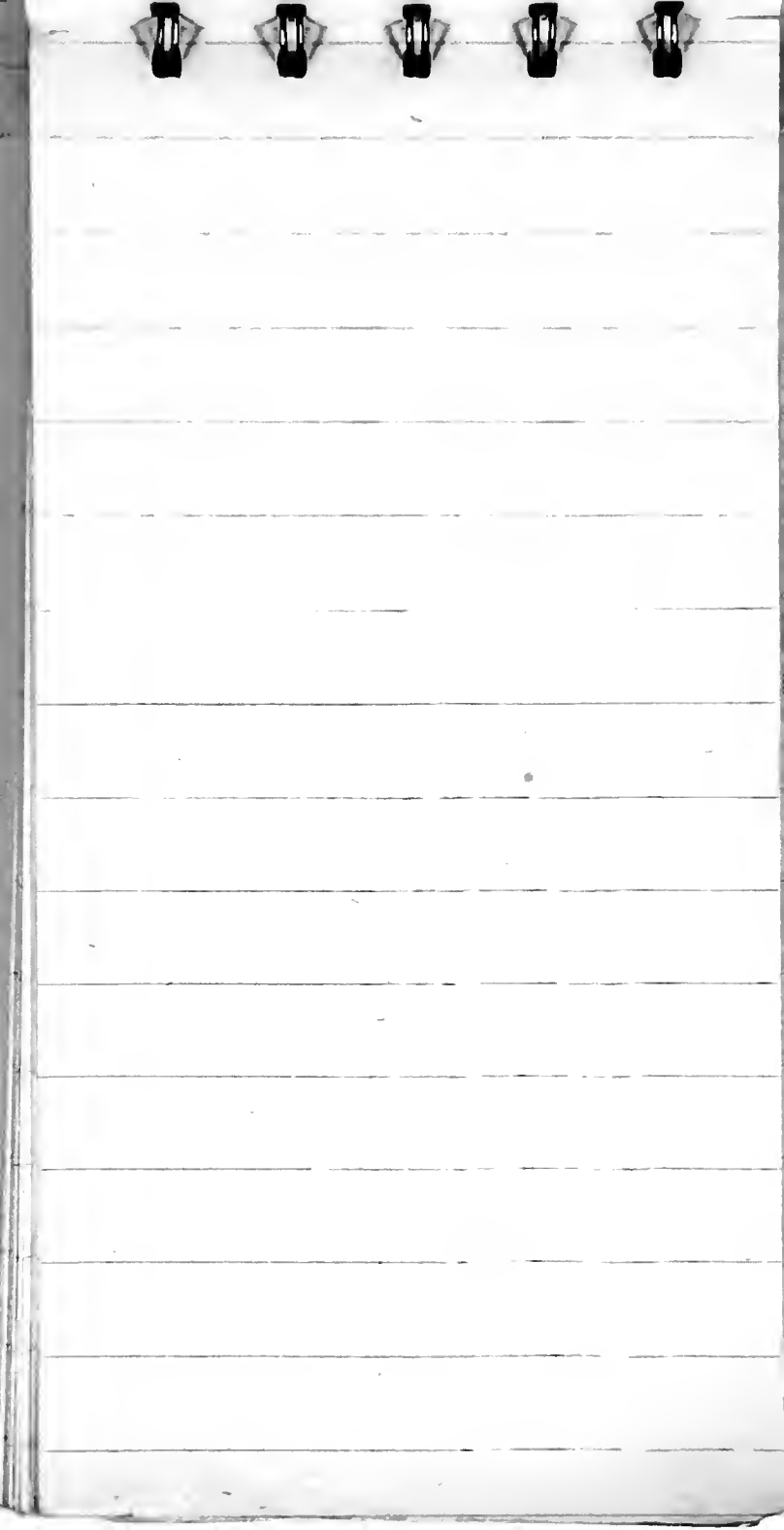


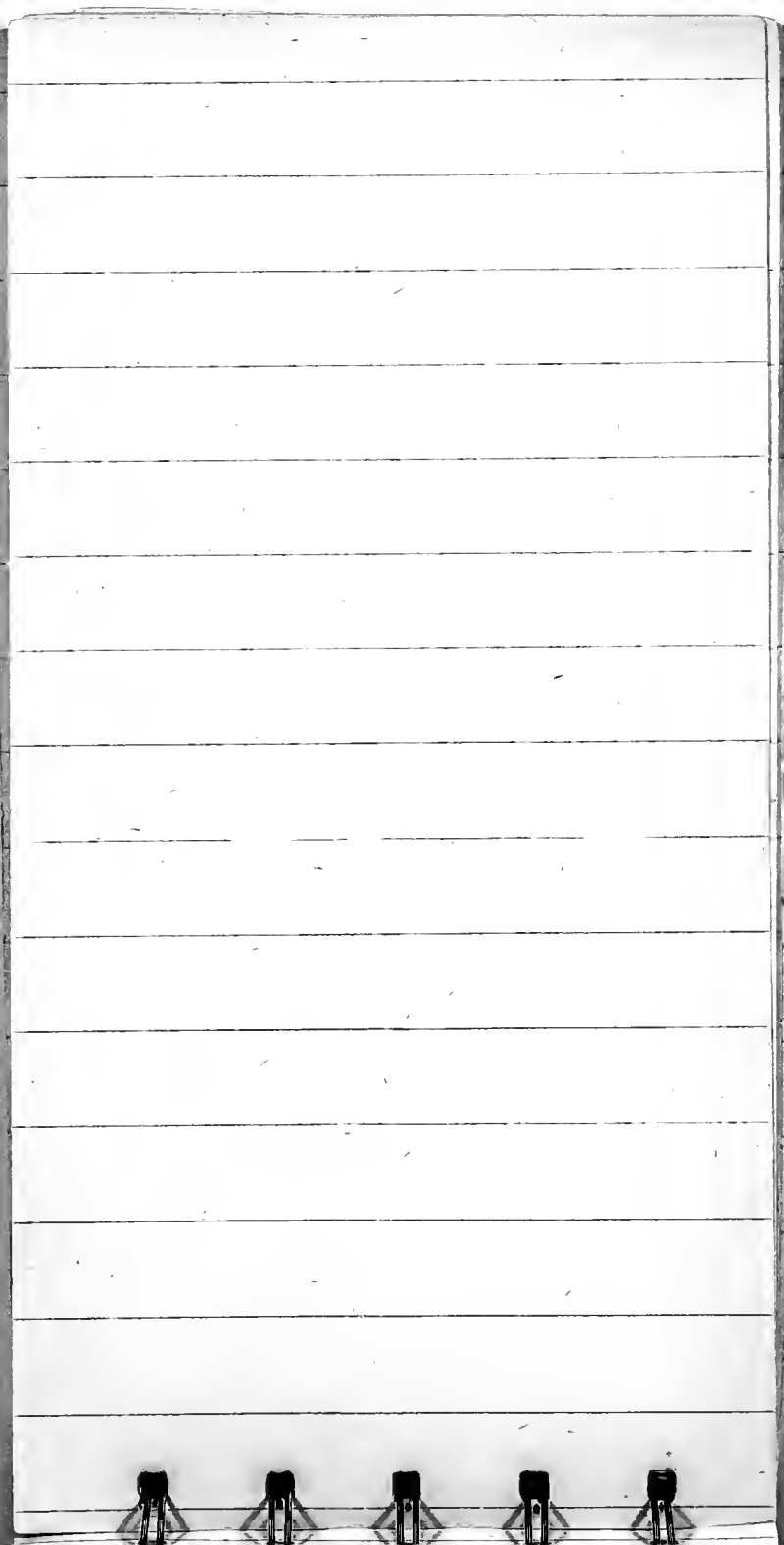
③ Calcareous, <sup>v. dark gray, weathers brown</sup>, v. shaly, irregular  
beds, 2 to 4" thick, — 2'

Coll. 10

④ Calcareous, shaly, and some  
caliche — v. dark gray, some  
beds weathers light brown,  
3" beds,  $\frac{1}{2}$ " shale interbeds,  
bedding is nearly planar here,  
Coll. 11, dip 12 to 15° S.E., — 25'

Across the river the beds are  
flexed in a S.W. trending nose  
and we suggest a fault in  
the contact on the bend in the  
river here.





Trenton River 2 7-28-60.

cut across in Trenton River at  
bridge at Trenton falls, brushy  
beds outcrop N. side of bridge  
below dam (spillway)

Coll. 12. 4 ft

3 ft above spillway

above the. Coll. 13. 3 ft.

large Teatula gigas

Coll. 14 Exposure in

down cut of exposure in

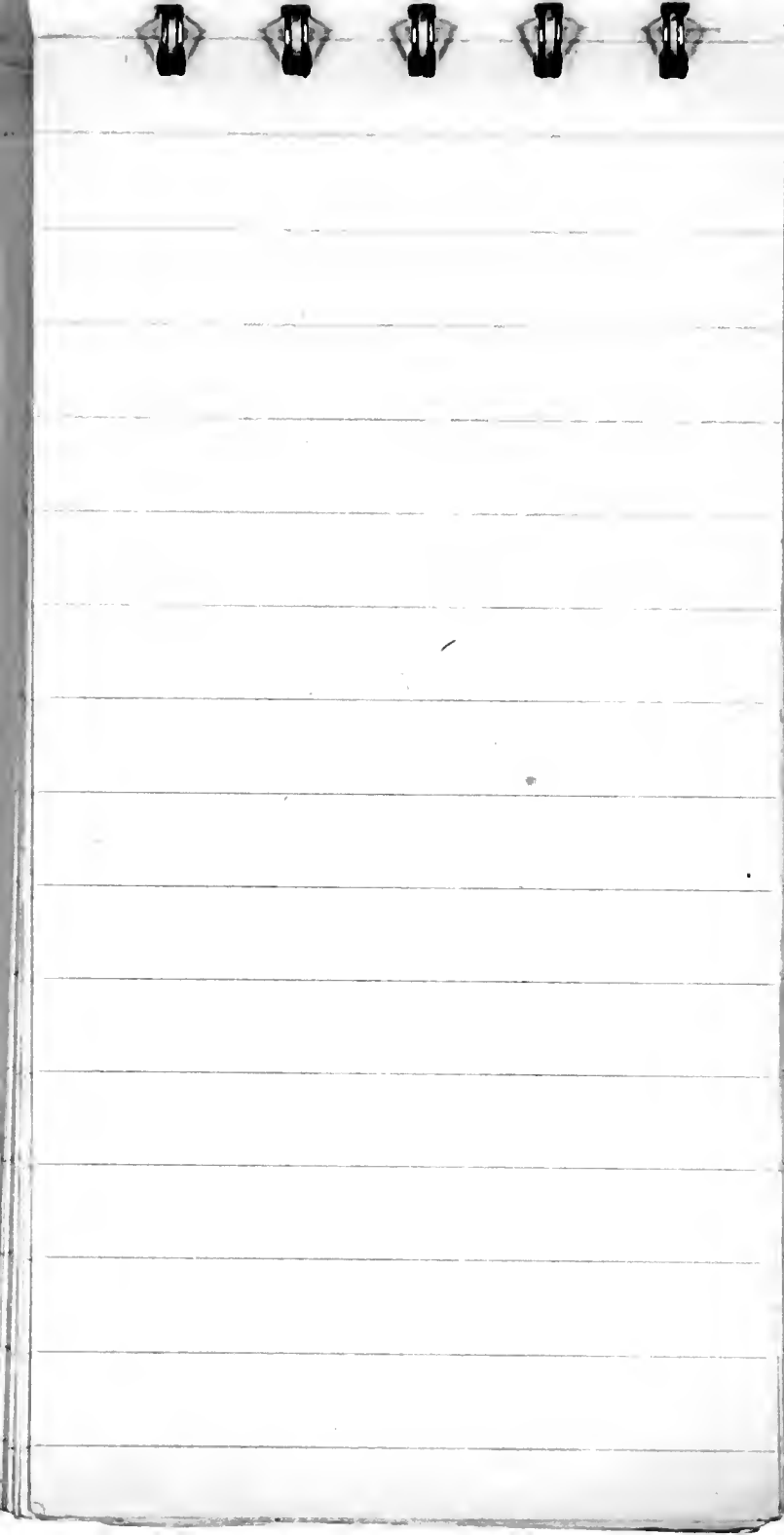
Mohawk 1110 6 ft

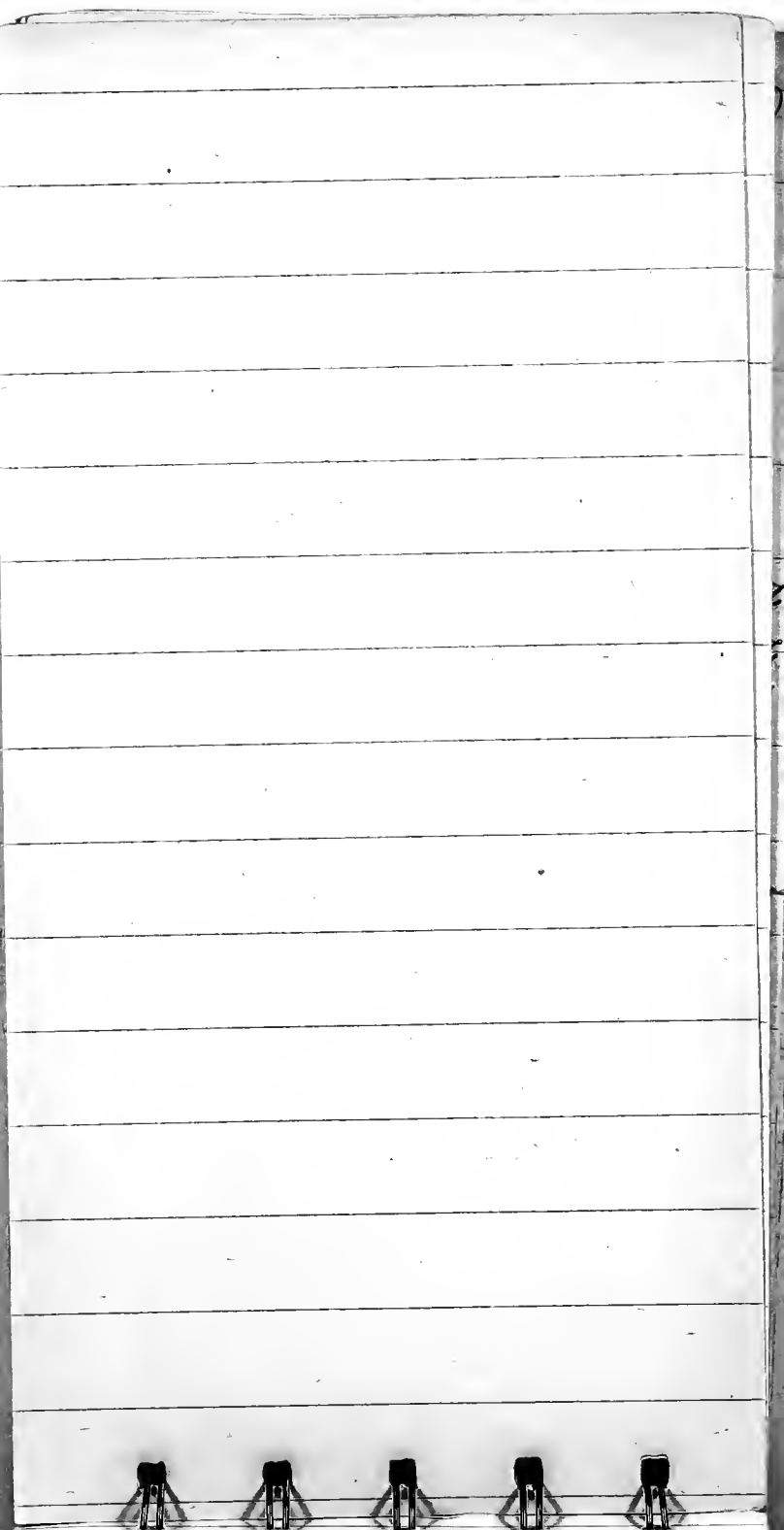
15 ft lower

Thin bedded (Polaroid member)

Thin bedded

Contains Prasopora







Niagara Mohawks 7/29/60.  
Power Corp. W. Canada Co.  
Tad. 1000

2000 feet in the 2.

3' ch. calcarenite - fine  
columnar &  
orthocerids abundant. Some  
Coll. 1.

Cell 2. 5 ft.  
15' above 4' 1'  
plant.

Bottom, *Refinosa*  
Coll 3, in unit 12 ft.  
calcarenite (3'-6" beds)  
& shale 3'-4" beds. w.  
calcarenite on top

7/29/60.

Coll. 4.

7/30/60.

Patent Hollow.

No coll.

Med Beville.

Coll. made due east of  
village about 1 mile  
on road to ~~to~~ Fairfield

Acc. to Cushing. N. Y. S. M. Bull. 77.  
both Bl. R. (5-15 ft) & Trenton.  
Middleville

Coll. sent.

pto

Cushing's quadrangle  
could be used for  
topographic map  
for localities around  
Middleville.

7/31/60

Ingham Mills

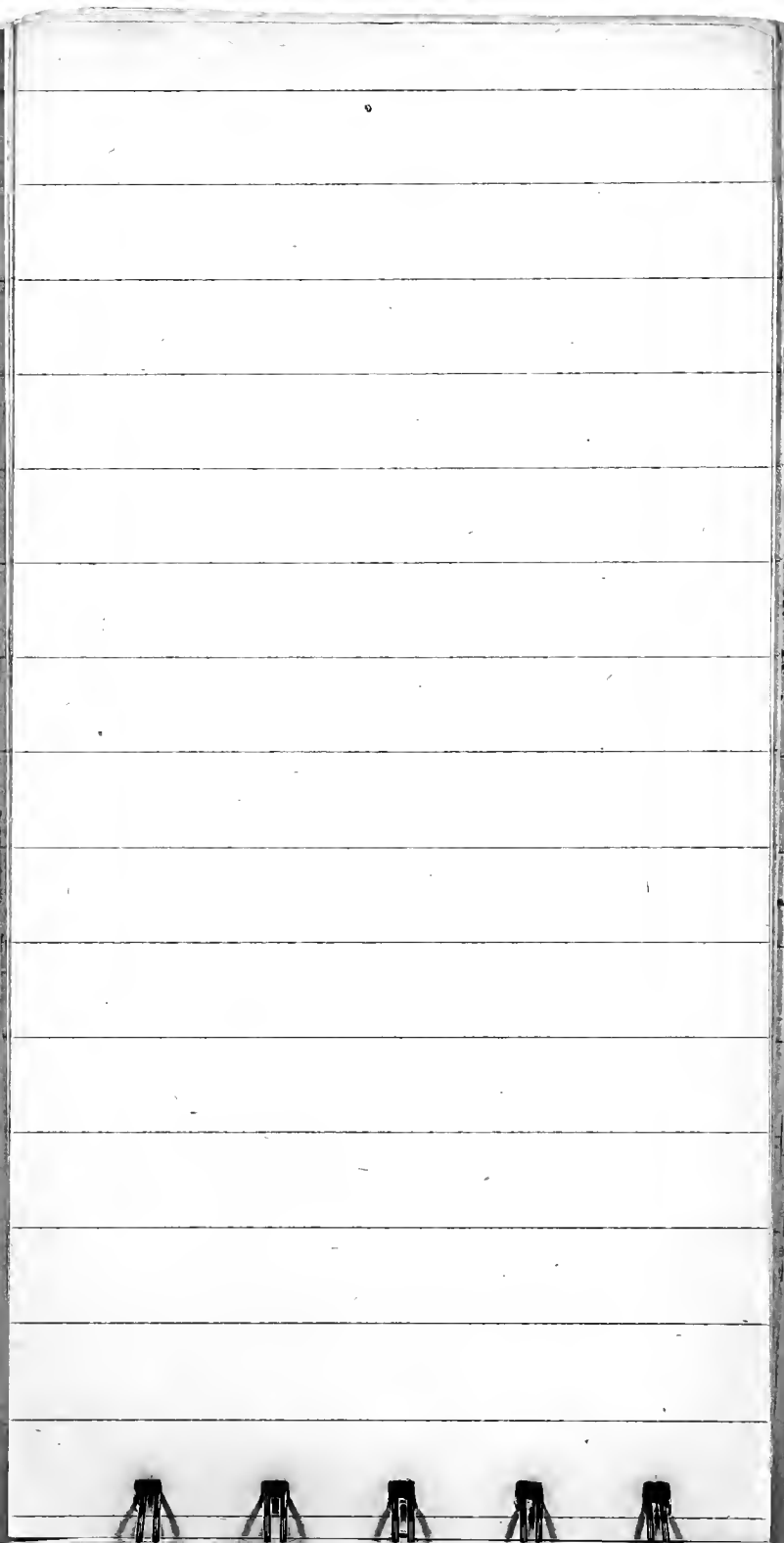
Never found outcrop

Wolgerville

8/1/60

Middletown -

New Haven.





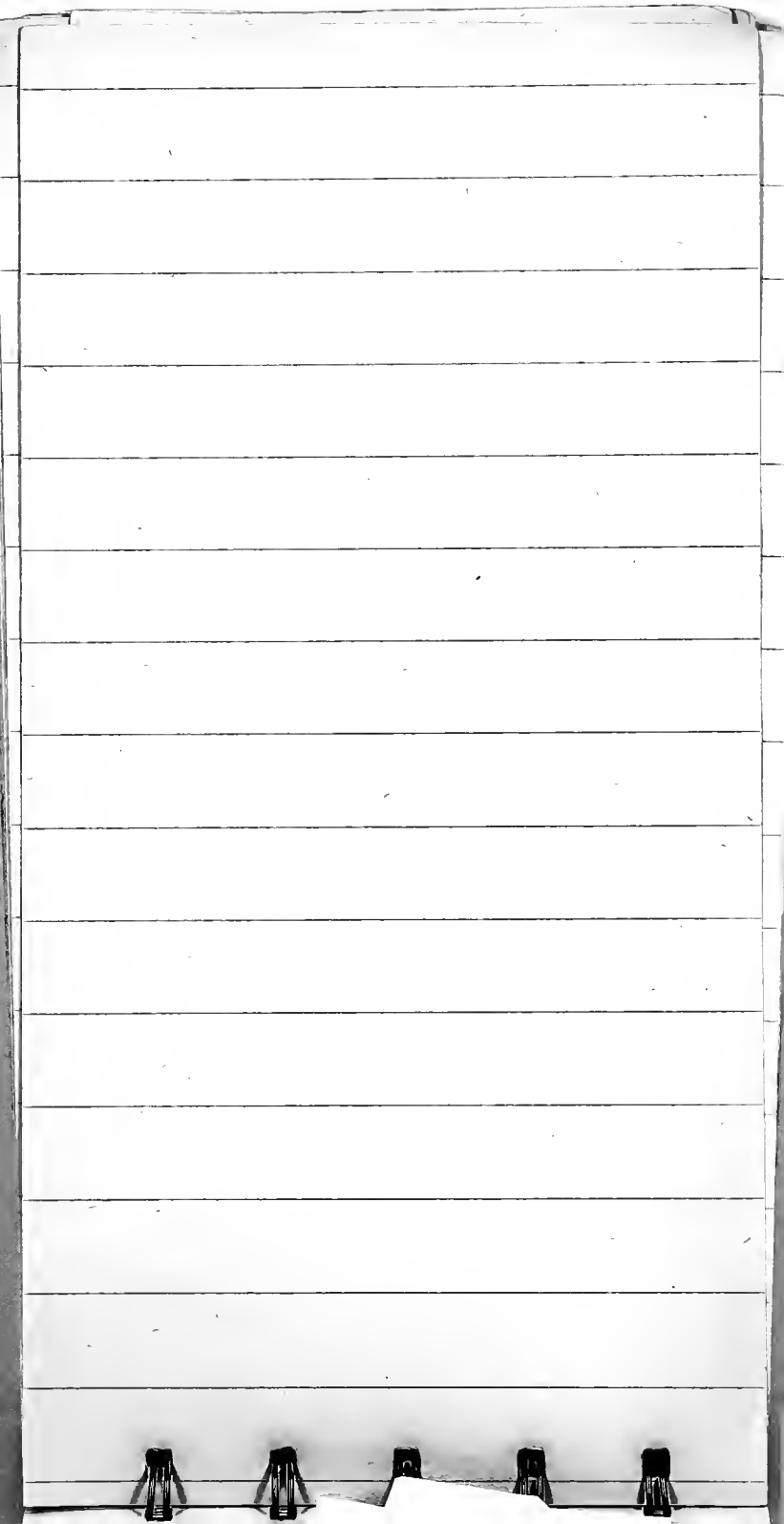
Hypothesis No. 1

Note O'Leary's type Chazy  
section does not  
commence at the base  
of Brainerd & Seely's  
section.

It appears that Coll. 7/24/60/13  
(with rugose corals) is on the  
line of strike of 8/10/59/T  
(with rugose corals &  
columnaria).

Now if these outcrops  
lie at the same level  
as 7/24/60/10 in Chazy quarry





& are the

e.

8/19/59/The

landing

thus vice

ids

as dipping

in various

due to g

dip is a

with see

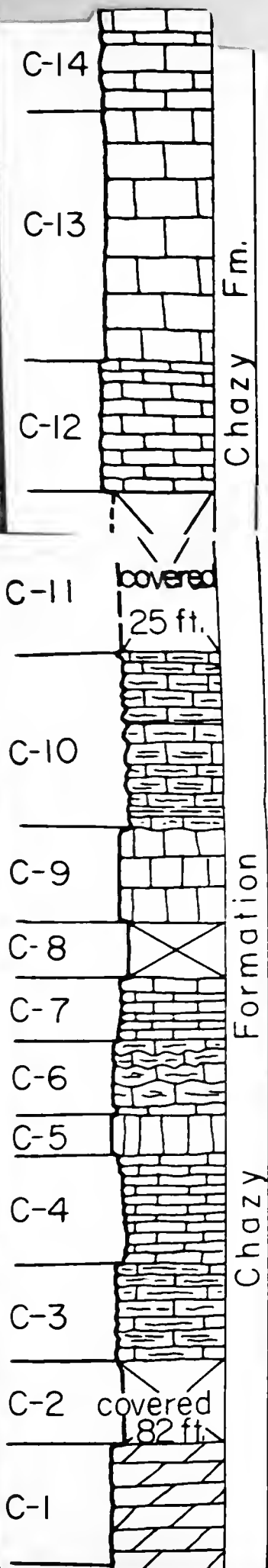
difficult

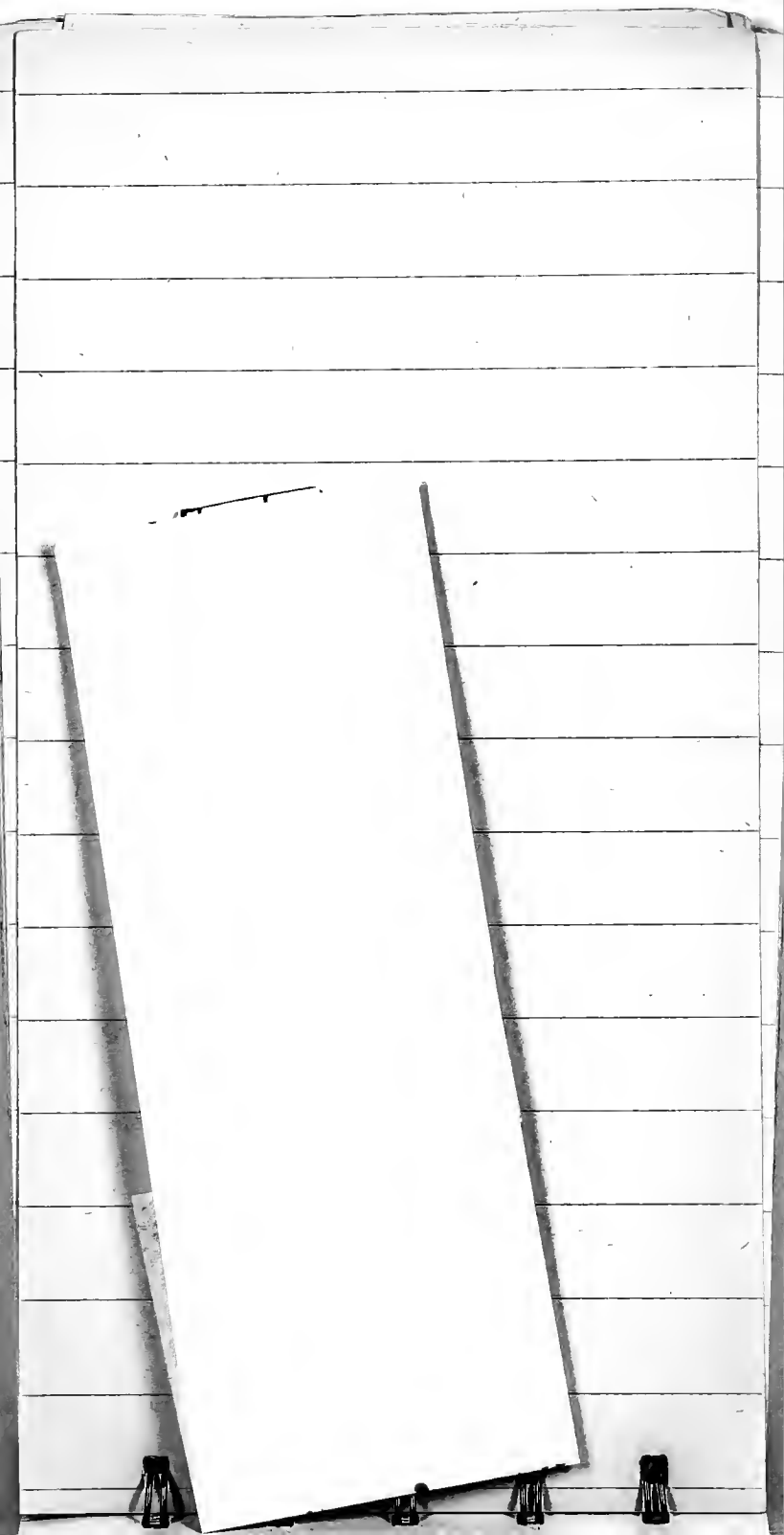
sh.

In Chazy Quarry

tetracoral head is 34 feet

above Rostricellula





& are the same as the etc.  
8/19/59/Henton - Chazy  
landing we would  
thus visualize the beds  
as dipping, shallowing  
in various directions  
due to gentle flexures  
dip is like  $5-6^{\circ}$  &  
with reefs etc. it is  
difficult to fix correct  
dip.

In Chazy Quarry  
triacoral bed is 34 ft  
above Rosticellula

I project Rosticellula  
bed up dip to Sheldon  
have the relation  
would be fine. The  
etc. of Rosticellula at  
8/19/59/H would not be  
anomalous.

Præpura occurs in  
Unit 10 34 feet above  
Rosticellula bed.  
— i.e. in upper part of  
Chazy = lower part  
of Black River

